

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	1	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		4,355,415	10-19-1982	George et al.	
		4,605,964	08-12-1986	Chard	
		4,638,424	01-20-1987	Beglin et al.	
		4,641,203	02-03-1987	Miller	
		4,680,647	07-14-1987	Moriyama	
		4,694,490	09-15-1987	Harvey et al.	
		4,706,121	11-10-1987	Young	
		4,718,107	01-05-1988	Hayes	
		4,754,326	06-28-1988	Kram et al.	
		4,771,375	09-13-1988	Beglin et al.	
		4,837,584	06-06-1989	Sharkey et al.	
		4,847,698	07-11-1989	Freeman	
		4,857,999	08-15-1989	Welsh	
		4,908,707	03-13-1990	Kinghorn	
		4,908,713	03-13-1990	Levine	
		4,930,158	05-29-1990	Vogel	
		4,949,187	08-14-1990	Cohen	
		4,959,720	09-25-1990	Duffield et al.	
Examiner Signature				Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	2	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		4,991,012	02-05-1991	Yoshino	
		5,047,867	09-10-1991	Strubbe et al.	
		5,053,948	10-01-1991	DeClute et al.	
		5,057,932	10-15-1991	Lang	
		5,109,279	04-28-1992	Ando	
		5,111,296	05-05-1992	Duffield et al.	
		5,134,719	07-28-1992	Mankovitz	
		5,151,789	09-29-1992	Young	
		5,172,413	12-15-1992	Bradley et al.	
		5,187,589	02-16-1993	Kono et al.	
		5,195,134	03-16-1993	Inoue	
		5,200,822	04-06-1993	Bronfin et al.	
		5,223,924	06-29-1993	Strubbe	
		5,231,543	07-27-1993	Kubota et al.	
		5,253,066	10-12-1993	Vogel	
		5,285,284	02-08-1994	Takashima et al.	
		5,293,357	03-08-1994	Hallenbeck	
		5,315,452	05-24-1994	Hong	
		5,335,277	08-02-1994	Harvey et al.	
		5,353,121	10-04-1994	Young et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	3	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		5,390,027	02-14-1995	Henmi et al.	
		5,412,720	05-02-1995	Hoarty	
		5,414,569	05-09-1995	Sekiguchi et al.	
		5,442,389	08-15-1995	Blahut et al.	
		5,450,210	09-12-1995	Yoo et al.	
		5,461,415	10-24-1995	Wolf et al.	
		5,469,206	11-21-1995	Strubbe et al.	
		5,479,266	12-26-1995	Young et al.	
		5,479,268	12-26-1995	Young et al.	
		5,479,302	12-26-1995	Haines	
		5,483,278	01-09-1996	Strubbe et al.	
		5,485,221	01-16-1996	Banker et al.	
		5,488,409	01-30-1996	Yuen et al.	
		5,499,103	03-12-1996	Mankovitz	
		5,508,815	04-16-1996	Levine	
		5,517,254	05-14-1996	Monta et al.	
		5,517,257	05-14-1996	Dunn et al.	
		5,523,794	06-04-1996	Mankovitz et al.	
		5,524,195	06-04-1996	Clanton, III et al.	
		5,532,754	07-02-1996	Young et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	4	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		5,537,141	07-16-1996	Harper et al.	
		5,539,449	07-23-1996	Blahut et al.	
		5,541,738	07-30-1996	Mankovitz	
		5,543,852	08-06-1996	Yuen et al.	
		5,543,929	08-06-1996	Mankovitz et al.	
		5,550,576	08-27-1996	Klosterman	
		5,559,550	09-24-1996	Mankovitz	
		5,571,282	11-05-1996	Girard et al.	
		5,581,614	12-03-1996	Ng et al.	
		5,583,560	12-10-1996	Florin et al.	
		5,583,561	12-10-1996	Baker et al.	
		5,583,563	12-10-1996	Wanderscheid et al.	
		5,585,838	12-17-1996	Lawler et al.	
		5,585,858	12-17-1996	Harper et al.	
		5,592,551	01-07-1997	Lett et al.	
		5,594,491	01-14-1997	Hodge et al.	
		5,594,509	01-14-1997	Florin et al.	
		5,602,582	02-11-1997	Wanderscheid et al.	
		5,614,940	03-25-1997	Cobbley et al.	
		5,616,876	04-01-1997	Cluts	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	5	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		5,619,247	04-08-1997	Russo	
		5,619,274	04-08-1997	Roop et al.	
		5,619,570	04-08-1997	Tsutsui	
		5,621,579	04-15-1997	Yuen	
		5,629,733	05-13-1997	Youman et al.	
		5,630,119	05-13-1997	Aristides et al.	
		5,632,007	05-20-1997	Freeman	
		5,648,824	07-15-1997	Dunn et al.	
		5,652,613	07-29-1997	Lazarus et al.	
		5,654,747	08-05-1997	Ottesen et al.	
		5,654,748	08-05-1997	Matthews, III	
		5,654,886	08-05-1997	Zereski, Jr. et al.	
		5,657,072	08-12-1997	Aristides et al.	
		5,659,367	08-19-1997	Yuen	
		5,666,645	09-09-1997	Thomas et al.	
		5,671,607	09-30-1997	Clemens et al.	
		5,675,734	10-07-1997	Hair	
		5,684,511	11-04-1997	Westerink et al.	
		5,684,525	11-04-1997	Klosterman	
		5,686,954	11-11-1997	Sony Corporation	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	6	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		5,692,214	11-25-1997	Levine	
		5,694,163	12-02-1997	Harrison	
		5,699,107	12-16-1997	Lawler et al.	
		5,701,383	12-23-1997	Russo et al.	
		5,710,601	01-20-1998	Marshall et al.	
		5,717,452	02-10-1998	Janin et al.	
		5,724,203	03-03-1998	Kwoh et al.	
		5,724,546	03-03-1998	Tsutsui	
		5,727,060	03-10-1998	Young	
		5,731,844	03-24-1998	Rauch et al.	
		5,732,216	03-24-1998	Logan et al.	
		5,745,710	04-28-1998	Clanton, III et al.	
		5,752,159	05-12-1998	Faust et al.	
		5,754,771	05-19-1998	Epperson et al.	
		5,758,257	05-26-1998	Herz et al.	
		5,760,821	06-02-1998	Ellis et al.	
		5,761,607	06-02-1998	Gudesen	
		5,768,528	06-16-1998	Stumm	
		5,771,354	06-23-1998	Crawford	
		5,774,859	06-30-1998	Houser et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	7	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		5,778,181	07-07-1998	Hidary et al.	
		5,778,182	07-07-1998	Cathey et al.	
		5,781,226	07-14-1998	Sheehan	
		5,781,228	07-14-1998	Sposato	
		5,790,198	08-04-1998	Roop et al.	
		5,790,935	08-04-1998	Payton	
		5,796,952	08-18-1998	Davis et al.	
		5,801,787	09-01-1998	Schein et al.	
		5,802,284	09-01-1998	Karlton et al.	
		5,805,804	09-08-1998	Laursen et al.	
		5,808,608	09-15-1998	Young et al.	
		5,812,123	09-22-1998	Rowe et al.	
		5,812,205	09-22-1998	Milnes et al.	
		5,818,438	10-06-1998	Howe et al.	
		5,819,019	10-06-1998	Nelson	
		5,828,945	10-27-1998	Klosterman	
		5,850,218	12-15-1998	LaJoie et al.	
		5,851,149	12-22-1998	Xidos et al.	
		5,883,621	03-16-1999	Iwamura	
		5,892,536	04-06-1999	Logan et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	8	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		5,899,576	05-08-1999	Fukuzawa	
		5,909,212	06-01-1999	Nishina et al.	
		5,920,700	07-06-1999	Gordon et al.	
		5,949,954	09-07-1999	Young et al.	
		5,988,078	11-23-1999	Levine	
		5,999,688	12-07-1999	Iggulden et al.	
		6,002,444	12-14-1999	Marshall et al.	
		6,006,257	12-21-1999	Slezak	
		6,023,267	02-08-2000	Chapuis et al.	
		6,052,145	04-18-2000	Macrae et al.	
		6,058,238	05-02-2000	Ng	
		6,091,883	07-18-2000	Artigalas et al.	
		6,091,884	07-18-2000	Yuen et al.	
		6,115,057	09-05-2000	Kwoh et al.	
		6,122,011	09-19-2000	Dias et al.	
		6,125,230	09-26-2000	Yaginuma	
		6,125,231	09-26-2000	Yuen et al.	
		6,147,715	11-14-2000	Yuen et al.	
		6,167,188	12-26-2000	Young et al.	
		6,169,844	01-02-2001	Arai	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	9	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		6,177,931	01-23-2001	Alexander et al.	
		6,185,360	02-06-2001	Inoue et al.	
		6,208,335	03-27-2001	Gordon et al.	
		6,219,489	04-17-2001	Ohta et al.	
		6,219,839	04-17-2001	Sampsell	
		6,226,444	05-01-2001	Goldschmidt Iki et al.	
		6,233,389	05-15-2001	Barton et al.	
		6,240,241	05-29-2001	Yuen	
		6,327,418	12-04-2001	Barton	
		6,334,022	12-25-2001	Ohba et al.	
		6,344,939	02-05-2002	Oguro	
		6,377,745	04-23-2002	Akiba et al.	
		6,419,137	07-16-2002	Marshall et al.	
		6,441,832	08-27-2002	Tao et al.	
		RE 37,881E	10-15-2002	Haines	
		6,473,559	10-29-2002	Knudson et al.	
		6,487,362	11-26-2002	Yuen et al.	
		6,498,895	12-24-2002	Young et al.	
		6,553,178	04-22-2003	Abecassis	
		6,732,366	05-04-2004	Russo	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	10	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		6,788,882	09-07-2004	Geer et al.	
		6,820,278	11-16-2004	Ellis	
		6,832,385	12-14-2004	Young	
		7,209,640	02-24-2005	Young et al	
		7,096,486	08-22-2006	Ukai et al.	
		7,187,847	03-06-2007	Young et al.	
		7,529,465	05-05-2009	Barton et al.	
		7,533,400	05-12-2009	Hailey et al.	
		60/032,539	12-10-1996		
		60/088,888	06-11-1998		
		60/089,487	06-16-1998		
		60/093,862	07-23-1998		
		08/952,530	04-24-1998	Yuen, et al.	
		09/329,850	06-11-1999	Lemmons et al.	
		09/712,327	11-13-2000	Yuen, et al.	
		10/199,187	07-19-2002	Yuen, et al.	
		10/361,478	02-06-2003	Ellis, et al.	
		10/383,281	03-05-2003	Ellis, et al.	
		10/383,311	03-05-2003	Hassell, et al.	
		10/383,313	03-05-2003	Hassell, et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	11	of	21	Attorney Docket Number	UV-196

U.S. PATENT DOCUMENTS					
		10/734,505	12-12-2003	Hassell, et al.	
		10/820,164	04-06-2004	Yuen, et al.	
		11/471,412	06-19-2006	Yuen, et al.	
		11/580,729	10-13-2006	Hassell, et al.	
		11/894,607	08-20-2007	Yuen, et al.	
		11/894,806	08-20-2007	Ellis, et al.	
		2001/0043795	11-22-2001	Wood et al.	
		2003/0044165	03-06-2003	Wood et al.	
		2003/0196201	10-16-2003	Schein et al.	
		2004/0008971	01-15-2004	Young et al.	
		2004/0128686	07-01-2004	Boyer et al.	
		2004/0181814	09-16-2004	Ellis et al.	
		2004/0261108	12-23-2004	Yuen et al.	
		2005/0044567	02-24-2005	Young et al.	
		2005/0204388	09-15-2005	Knudson	
		2005/0204388	09-15-2005	Knudson et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	12	of	21	Attorney Docket Number	UV-196

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		CN 1174477A	02-25-1998	Sony Corp.		√
		EP-0401930	12-12-1990	Phillips Electronics NV		
		EP 0424469	05-02-1991	StarSight Telecast, Inc.		
		EP 0584991	03-02-1994	Sony Corp.		
		EP 0665551	08-02-1995	Sony Corp.		
		EP-0629790	01-17-1996	Hitachi Ltd.		
		EP 0711073	05-08-1996	Sony Corp.		
		EP 0713334	05-22-1996	Matsushita Electric Industrial, Inc.		
		EP 0744866	11-27-1996	Nokia Technology GmbH		
		EP 0 753 964	01-15-1997	Thomson Multimedia SA		
		EP 0 762 756	03-12-1997	Matsushita Electric Ind. Co. Ltd.		
		EP 0 763 938	03-19-1997	StarSight Telecast, Inc.		
		EP 0 822 713	02-04-1998	Thomson Multimedia SA		
		EP 0 843 468	05-20-1998	Sony Corp.		
		EP 0849958	06-24-1998	Hitachi Ltd.		
		EP 0872834	10-21-1998	Sony Corp.		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	13	of	21	Attorney Docket Number	UV-196

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		EP 0 874 524	10-28-1998	StarSight Telecast, Inc.		
		EP 0936811	08-18-1999	Fujitsu Ltd.		
		EP 0 940 985	09-08-1999	Matsushita Electric Industrial Co., Ltd.		
		EP 0 969 661	01-05-2000	Hitachi, Ltd.		
		EP 1581001	09-28-2005	United Video Properties, Inc.		
		EP 0848383	10-26-2005	Sony Corp.		
		GB 2 219 886	12-20-1989	NV Phillips Gloeellampenfabrieken		
		GB 2298544	09-04-1996	Ghazala Shaheen Jamil Malik		
		JP 62-060378	03-17-1987	Casio Computer Co Ltd.		
		JP 01-209399	08-23-1989	Hitachi Ltd.		
		JP 03-226083	10-07-1991	Gold Star Co.		√
		JP 03-286483	12-17-1991	Sony Corp.		√
		JP 05-101471	04-23-1993	Sony Corp.		√
		JP 05-260554	10-08-1993	Sony Corp.		
		JP 06111413	04-22-1994	Funai Electric Co.		
		JP 06-133334	05-13-1994	Hitachi Ltd.		√
		JP 06-236592	08-23-1994	Victor Company of Japan		√

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	14	of	21	Attorney Docket Number	UV-196

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		JP 06303541	10-28-1994	Sony Corp.		
		JP 07-044930	02-14-1995	Hitachi Ltd.		
		JP 7-230666	08-29-1995	Mitsubishi Electric Corp.		
		JP 8-77763	03-22-1996	Sony Corp.		
		JP 9-245467	09-19-1997	Matsushita Electric Industrial, Inc.		√
		JP 9-259515	10-03-1997	Fujitsu Ltd.		
		JP 09289630	11-04-1997	Sony Corp.		
		JP 10-042242	02-13-1998	Sony Corp.		√
		JP 10-093879	04-10-1998	Thomson Multimedia SA		√
		JP 10-91534	04-10-1998	Samsung Electronics Co., Ltd.		√
		JP 10-93905	04-10-1998	Toshiba Corp.		√
		JP 10-93936	04-10-1998	Tokyo Shibaura Electric Co.		√
		JP 10-112087	04-28-1998	Sony Corp.		√
		JP 10-164487	06-19-1998	Tokyo Shibaura Electric Co.		√
		JP 10-191221	07-21-1998	Hitachi Ltd.		√
		JP 10-215440	08-11-1998	Daiichi Kosho KK		√
		JP 10-243309	09-11-1998	Tokyo Shibaura Electric Co.		√

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	15	of	21	Attorney Docket Number	UV-196

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		JP 10-243344	09-11-1998	Canon, Inc.		✓
		JP 10-243352	09-11-1998	Hitachi Ltd.		✓
		WO 88/04507	06-16-1988	British Broadcasting Corp.		
		WO 90/00847	01-25-1990	Insight Telecast, Inc.		
		WO 90/15507	12-13-1990	Right Hemisphere Pty. Ltd.		
		WO 91/00670	01-10-1991	The Superguide Corp.		
		WO 91/07050	05-16-1991	Insight Telecast, Inc.		
		WO 92/04801	03-19-1992	Insight Telecast, Inc.		
		WO 92/22983	12-23-1992	Browne et al.		
		WO 93/04473	03-04-1993	Yuen et al.		
		WO 93/08542	04-29-1993	Yuen		
		WO 95/01058	01-05-1995	Apple Computer		
		WO 95/04431	02-09-1995	Electronic Data Systems Corporation		
		WO 95/11567	04-27-1995	Mankovitz et al.		
		WO 95/18449	07-06-1995	Yuen et al.		
		WO 95/31069	11-16-1995	StarSight Telecast, Inc.		
		WO 95/32584	11-30-1995	Gemstar Development Corp.		
		WO 95/32585	11-30-1995	TV Guide On Screen		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	16	of	21	Attorney Docket Number	UV-196

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 95/32587	11-30-1995	Prevue International, Inc.		
		WO 96/07270	03-07-1996	Yuen et al.		
		WO 96/09721	03-28-1996	TV Guide On Screen		
		WO 96/13932	05-09-1996	Gemstar Development Corporation		
		WO 96/25821	08-22-1996	Index Systems, Inc.		
		WO 96/27982	09-12-1996	Gemstar Development Corp.		
		WO 96/33572	10-24-1996	StarSight Telecast, Inc.		
		WO 96/33579	10-24-1996	Krause		
		WO 96/34491	10-31-1996	TV Guide on Screen		
		WO 96/36172	11-14-1996	Gemstar Development Corp.		
		WO 96/41472	12-19-1996	StarSight Telecast, Inc.		
		WO 96/41478	12-19-1996	TV Guide on Screen		
		WO 97/05616	02-13-1997	Sony Electronics Inc.		
		WO 97/13368	04-10-1997	StarSight Telecast, Inc.		
		WO 97/31479	08-28-1997	E Guide, Inc.		
		WO 97/32434	09-04-1997	E Guide, Inc.		
		WO 97/34413	09-18-1997	E. Guide, Inc.		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	17	of	21	Attorney Docket Number	UV-196

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 97/34414	09-18-1997	E. Guide, Inc.		
		WO 97/40623	10-30-1997	Sun Microsystems, Inc.		
		WO 97/42763	11-13-1997	StarSight Telecast, Inc.		
		WO 97/46008	12-04-1997	Thomson Consumer Electronics		
		WO 97/46016	12-04-1997	StarSight Telecast, Inc.		
		WO 97/46943	12-11-1997	WebTV Networks, Inc.		
		WO 97/47124	12-11-1997	WebTV Networks, Inc.		
		WO 97/48228	12-18-1997	StarSight Telecast, Inc.		
		WO 97/48230	12-18-1997	StarSight Telecast, Inc.		
		WO 97/49057	12-24-1997	Sony Corporation		
		WO 97/49237	12-24-1997	StarSight Telecast, Inc.		
		WO 97/49242	12-24-1997	StarSight Telecast, Inc.		
		WO 98/01995	01-15-1998	StarSight Telecast, Inc.		
		WO 98/06219	02-12-1998	StarSight Telecast, Inc.		
		WO 98/07277	02-19-1998	StarSight Telecast, Inc.		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	18	of	21	Attorney Docket Number	UV-196

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 98/10589	03-12-1998	StarSight Telecast, Inc.		
		WO 98/12872	03-26-1998	StarSight Telecast, Inc.		
		WO 98/16056	04-16-1998	Gemstar Development Corp.		
		WO 98/17064	04-23-1998	Gemstar Development Corp.		
		WO 98/26594	06-18-1998	StarSight Telecast, Inc.		
		WO 98/26596	06-18-1998	StarSight Telecast, Inc.		
		WO 98/38831	09-03-1998	StarSight Telecast, Inc.		
		WO 98/39893	09-11-1998	StarSight Telecast, Inc.		
		WO 98/47279	10-22-1998	StarSight Telecast, Inc.		
		WO 98/47283	10-22-1998	Thomson Consumer Electronics		
		WO 98/47289	10-22-1998	Imedia Corporation		
		WO 98/10589	12-03-1998	StarSight Telecast, Inc.		
		WO 99/03267	01-21-1999	Thomson Consumer Electronics		
		WO 99/33265	07-01-1999	Intel Corp.		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	19	of	21	Attorney Docket Number	UV-196

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 99/57839	11-11-1999	Samsung Electronics Co. Ltd.		
		WO 00/01149	01-06-2000	NDS Limited		
		WO 00/02385	01-13-2000	United Video Properties, Inc.		
		WO 00/07368	02-10-2000	Tivo, Inc.		
		WO 00/08852	02-17-2000	Wood et al.		
		WO 00/11869	03-02-2000	United Video Properties, Inc.		
		WO 00/27122	05-11-2000	United Video Properties, Inc.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		International Preliminary Examination Report for Application No. PCT/US97/04074, dated October 15, 1998, 7 pages	
		Supplementary European Search Report and Annex for EPA No. EP 97 91 5090, dated March 16, 2000	
		"Computer Science: An Overview", 5th Edition, Addison Wesley, ISBN 0-8053-4632-5, Pages 25 to 28	
		"Startup puts MPEG-2 encoder in fast forward", EE Times	
		Article entitled "Automating in a digital world, servers lead the way into the new realm of DTV", Broadcasting and Cable, published 24 November 1997	
Examiner Signature			Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	20	of	21	Attorney Docket Number	UV-196

NON PATENT LITERATURE DOCUMENTS			
		Copy of results listing from web.archive.org showing the archive date of 09 Oct 1997 as the archived date of document D3	
		European Search Opinion dated December 19, 2005	
		FTP file listing of doc/resource-guide/front-matter at ftp.cs.toronto.edu	
		IBM Technical Disclosure Bulletin, Vol. 33, No. 3B, published August 1990	
		Louth Automation website (www.louth.com) dated August 1997	
		Manual for Internet Explorer 4- Chapter 9 – Browser Features and Functionality	
		Norton Backup, Version 1.0, User's Guide and reference, published in 1990 (chapters 3 and 4)	
		Overview of Pro-Bell/Chyron's MAPP software published on or after January 1999	
		RFC 765 - File Transfer Protocol Specification	
		Sony SLV-760IIF et al. operating instructions (Sony 2") , published in 1995	
		The New York Times on the Web, "2 Makers Plan Introductions of Digital VCR" by John Markoff, March 29, 1999	
		TV Guide Magazine dated 4-10 February 1989 (excerpts)	
		Hofmann, Neumann, Oberlies, and Schadwinkel, "Videotext Programmiert Videorecorder," Rundfunktechnische Mitteilungen, Nov.-Dec. 1982, pp. 254-257 (translation attached).	
		"Electronic Programme Guide (EPG); Protocol for a TV Guide using electronic data transmission" by European Telecommunication Standards Institute, May 1997, Valbonne, France, publication no. ETS 300 707.	
		Saito, Takeshi, et al., "Homenetwork Architecture Considering Digital Home Appliance," Technical Committee meeting of The Institute of Electronics, Information and Communication Engineers (IEICE), Japan, November 6, 1997, Vol. 97, No. 368, p.57-64.	
		"Windows 98 Feature Combines TV, Terminal and the Internet," <u>New York Times</u> , August 18, 1998	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/829,806
				Filing Date	April 10, 2001
				First Named Inventor	William L. Thomas
				Art Unit	2424
				Examiner Name	Annan Q. Shang
Sheet	21	of	21	Attorney Docket Number	UV-196

NON PATENT LITERATURE DOCUMENTS			
		"Digital Video Broadcasting (DVB); DVB specification for data broadcasting", European Telecommunications Standards Institute, Draft EN 301 192 V1.2.1 (1999-01).	
		Rewind, replay and unwind with new high-tech TV devices," by Lawrence J. Magid, LA Times. This document was printed from the Internet on June 6, 1999 and bears a date of May 19, 1999.	
		Extended European Search Report for EPA NO. EP 08 10 3067, dated October 29, 2008	
		Dinwiddie et al., "Combined-User Interface for Computers, Television, Video Recorders, and Telephone, Etc.," IP.com Prior Art Database Bulletin, March 16, 2005	
		Hallenbeck et al., "Personal Home TV Programming Guide," Digest of Technical Papers of the International Conference on Consumer Electronics, June 6-8, 1990, pp. 310-311	
		IEEE 1990 International Conference on Consumer Electronics Digest of Technical Papers, Table of Contents, June 6-8, 1990	
		Patentee's Response to the EESR, filed on August 1, 2006	
		"VPS weiterentwickelt: Service Über Videotext," Funkschau Recorder-Programmierung, November 1986, pp. 40-43 with English translation	
		Karon, P., "Replay to Bow" Instant VCR", Daily Variety, September 8, 1998.	
		Proceedings of Patent Infringement Action for European Patent Application No. 05077272.2	
		Copies of Office Actions and Replies filed in U.S. Patent Application No. 10/383,281 (Our Ref. UV-70 Con 1)	
		Copies of Office Actions and Replies filed in U.S. Patent Application No. 10/734,505 (Our Ref. UV-70 Con 4).	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.